

## CLAIMS

1. A dual mode RFID reader, comprising:
  - an antenna for receiving and transmitting RF signals,
  - a RF source and Preamplifier module,
  - a power supply,
  - an input/output connection, and
  - a digital signal processor module;

said antenna connected to said RF source and preamplifier module for receiving and transmitting RF signals;

said digital signal processor module controlling said RF source and preamplifier module, and decoding said RF signals received antenna.

said digital signal processor operable with more than one of a RFID protocol by changing an operational characteristic of said RF source and preamplifier module.
2. The device of Claim 1, wherein:
  - said Digital signal processor includes a flash memory,
  - said flash memory loadable with operational data, allowing the device to be reconfigured by a host computer.
3. The device of Claim 1, wherein:
  - said more than one RFID protocols include Intellitag 500 and ISO/AAR protocol.
4. The device of Claim 1 wherein:

An operating range of the device is adjustable by varying a RF signal power output level.
5. The device of Claim 1 wherein:

An operating range of the device is adjustable by varying a data threshold level.

6. The device of Claim 1 wherein:

the device is enclosed in a housing formed from two identical, matching halves.

7. The device of Claim 1 wherein:

the RF source and preamplifier module filter and amplify received RF signals at a filtering and amplification level controlled by the digital signal processor.

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